

STEREO MOC Status Report  
Time Period: 2020:055 - 2020:061

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- None.

2. The following spacecraft/instrument events occurred during this week. The Ahead observatory operated nominally during this week.

- On days 056, the PLASTIC team performed commanding to load a new table for the solar wind operational mode. The new table load is designed to lower the working voltages of the entrance system high voltage power supplies.
- On day 057, the 126th momentum dump was executed successfully at 1930z, which imparted an estimated delta V of 0.092 m/sec. This was the 45th momentum dump conducted without gyro use. After thruster operations completed, there was a 0.68 degree of roll angle error. Fine pointing stabilized 2.3 minutes after completion of the momentum dump.
- On days 058, the PLASTIC team performed commanding to enable the entrance system, which was disabled for the momentum dump. The new table load is working well and PLASTIC is detecting solar wind protons. The team has declared that the instrument is in partial science operations. All PLASTIC systems are behaving well, except there is a high background count rate, which the team is continuing to monitor.
- The average daily science data return for Ahead was 6.7 Gbits during this week.